

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3	277/204,123,188,528,534,538,539,535,633,610.ccls. and @py> "2011"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/05/29 12:07
L2	5	277/528,534-541,610,633,510.ccls. and @py> "2011"	US-PGPUB; USPAT; USOCR	OR	ON	2012/05/29 12:08
S1	2	("5803464").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/08/15 10:15
S2	2	("6082739").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/08/15 10:16
S3	29	("1856051"   "1932809"   "2357257"   "2442311"   "3009721"   "3132870"   "3179426"   "4363465"   "4394023"   "4451047"   "4516785"   "4892320"   "5411274"   "5499826"   "5522603"   "5573253"   "5806858").PN. OR ("5803464"   "6082739").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/08/15 13:09
S5	1232	277/204,123,188,528,534,538,539,535,633,610.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/15 17:28
S6	47	S5 and (graphite near2 (tap\$4 or wind\$4 or spiral\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/15 17:31
S7	149	S5 and graphite not S6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/15 17:34

S12	35	S5 and die not S6 not S7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/15 17:42
S13	134	S5 and ((gasket or gland or ring) near1 (ring or packing)) not S6 not S7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/15 17:42
S15	150	S12 or S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/08/15 17:43
S16	2470	277/510,534,535-541.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/09/01 16:40
S17	207	S16 and (wrap\$4 wind\$4 Spiral\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/09/01 16:47
S18	29	("1856051"   "1932809"   "2357257"   "2442311"   "3009721"   "3132870"   "3179426"   "4363465"   "4394023"   "4451047"   "4516785"   "4892320"   "5411274"   "5499826"   "5522603"   "5573253"   "5806858").PN. OR ("5803464"   "6082739").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/02 10:37
S20	32	("1086240"   "1155018"   "4068853"   "4157835"   "4162078"   "4190257"   "4256317"   "4328974"   "4350346"   "4364542"   "4394023"   "4455334"   "4457491"   "4667969"   "4705722"   "4826181"   "4892320"   "4934657"   "4961988"   "5050298"   "5134030"   "5135240"   "5188376").PN. OR ("5522603").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/02 11:55
S21	16	("1321919"   "3953566"   "4431698"   "4559862"   "4667969"   "4795171"   "5050298"   "5135240"   "5370926"   "5499827"   "5522603"   "5527047").PN. OR ("5687974").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/09/02 11:59
S22	6	("4256317"   "4298562"   "4328974"   "5225262"   "5228701"   "5370405").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/10/17 15:24
S23	2376	277/510,534,535-541.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/10/17 15:26
S24	985	S23 and (gland or stuffing or packing)	US-PGPUB; USPAT; USOCR	OR	ON	2011/10/17 15:27

S26	157	S24 and (wound or wind or winding or wrap or wrapping or wrapped)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/17 15:29
S27	828	S24 not S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/17 15:50
S28	127	S24 and graphite not S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/17 15:50
S29	2376	277/510,534,535-541.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/10/17 17:45
S30	985	S29 and (gland or stuffing or packing)	US-PGPUB; USPAT; USOCR	OR	ON	2011/10/17 17:45
S31	157	S30 and (wound or wind or winding or wrap or wrapping or wrapped)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/17 17:45
S32	127	S30 and graphite not S31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/17 17:45
S33	284	S31 S32	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/17 17:45
S34	701	S30 not S33	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/17 17:46
S35	2377	277/510,534,535-541.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/10/18 11:13
S36	985	S35 and (gland or stuffing or packing)	US-PGPUB; USPAT;	OR	ON	2011/10/18 11:13

			USOOR			
S37	157	S36 and (wound or wind or winding or wrap or wrapping or wrapped)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/18 11:13
S38	127	S36 and graphite not S37	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/18 11:13
S39	284	S37 S38	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/18 11:13
S40	701	S36 not S39	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/18 11:13
S41	985	S39 S40	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/18 11:13
S42	31	{(US-5803464-\$ or US-6082739-\$ or US-4394023-\$ or US-4451047-\$ or US-4892320-\$ or US-5411274-\$ or US-5522603-\$ or US-5573253-\$ or US-5806858-\$ or US-4116451-\$ or US-5297805-\$ or US-5687974-\$ or US-5201532-\$ or US-4363465-\$ or US-5622371-\$ or US-5845909-\$ or US-1357219-\$ or US-1783762-\$ or US-1924555-\$ or US-1969008-\$ or US-2527088-\$ or US-4356997-\$ or US-5615896-\$).did. or (US-3179426-\$ or US-2357257-\$ or US-1381931-\$ or US-1787020-\$ or US-2217085-\$ or US-2292543-\$ or US-1994830-\$).did. or (JP-05060245-\$).did.	USPAT; USOOR; JPO	OR	ON	2011/10/18 11:13
S43	990	S39 S40 S42	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/10/18 11:13
S44	500	("0564953"   "0756880"   "0773949"   "0793463"   "0816190"   "0882103"   "0969255"   "1086240"   "1155018"   "1184212"   "1321919"   "1323660"   "1440207"   "1543963"   "1584394"   "1654463"   "1825962"   "1856051"   "1924555"   "1952339"   "1969008"   "1971169"   "2081040"   "2090956"   "2120982"   "2135583"   "2188664"   "2200212"	US-PGPUB; USPAT; USOOR	OR	ON	2011/10/18 11:13

		"2251211"	"2292543"	"2294499"	"2341164"				
		"2357257"	"2391900"	"2417181"	"2433638"				
		"2442311"	"2511109"	"2525747"	"2537230"				
		"2553750"	"2571560"	"2644804"	"2689145"				
		"2691814"	"2706655"	"2750961"	"2765185"				
		"2797063"	"2807511"	"2827320"	"2833572"				
		"2845286"	"2893435"	"2907614"	"2948556"				
		"2950898"	"2951721"	"2969997"	"2992840"				
		"2995388"	"3002776"	"3009721"	"3011804"				
		"3013830"	"3057596"	"3068942"	"3069178"				
		"3076657"	"3094337"	"3132870"	"3158376"				
		"3168320"	"3169776"	"3179426"	"3166881"				
		"3188048"	"3284086"	"3284088"	"3284111"				
		"3305015"	"3312150"	"3331609"	"3341211"				
		"3361432"	"3365219"	"3381968"	"3393917"				
		"3404061"	"3429009"	"3436084"	"3443816"				
		"3463518"	"3464709"	"3467394"	"3469853"				
		"3469854"	"3469855"	"3481824"	"3521852"				
		"3538938"	"3540533"	"3554280"	"3608912"				
		"3612538"	"3625552"	"3658291"	"3679241"				
		"3690685"	"3696831"	"3697089"	"3703814"				
		"3741294"	"3753569"	"3761055"	"3773337"				
		"3829106"	"3840257"	"3841289"	"3848880"				
		"3851853"	"3854737"	"3870589"	"3873106"				
		"3918726".PN. OR ("3926445"   "3929358"							
		"3953566"	"3954932"	"4006881"	"4026517"				
		"4029294"	"4040636"	"4047695"	"4050701"				
		"4053166"	"4056272"	"4068853"	"4082105"				
		"4090719"	"4109942"	"4116451"	"4131287"				
		"4155558"	"4157835"	"4160551"	"4162078"				
		"4190257"	"4190259"	"4192519"	"4214600"				
		"4214761"	"4219204"	"4230299"	"4256317"				
		"4261584"	"4268045"	"4280709"	"4298562"				
		"4305567"	"4306728"	"4327923"	"4328974"				
		"4350346"	"4364542"	"4394023"	"4398729"				
		"4406469"	"4428589"	"4431698"	"4438935"				
		"4451047"	"4455334"	"4457491"	"4462603"				
		"4468042"	"4475573"	"4480842"	"4516785"				
		"4524982"	"4534922"	"4541639"	"4559248"				
		"4559862"	"4560176"	"4570944"	"4591166"				
		"4611658"	"4630636"	"4632406"	"4635945"				
		"4665978"	"4667969"	"4683010"	"4705278"				
		"4705722"	"4730835"	"4779903"	"4789168"				
		"4792491"	"4795171"	"4799956"	"4811959"				
		"4826181"	"4886241"	"4891117"	"4892320"				
		"4934657"	"4961988"	"4961991"	"4991857"				
		"5022660"	"5050298"	"5134030"	"5135240"				
		"5156410"	"5161807"	"5165703"	"5188376"				
		"5225262"	"5228701"	"5306021"	"5370405"				
		"5370926"	"5411274"	"5499826"	"5499827"				
		"5522603"	"5527047"	"5573253"					
		"Re22459".PN. OR ("1357219"   "1381931"							
		"1783762"	"1787020"	"1924555"	"1969008"				
		"1994830"	"2217085"	"2292543"	"2357257"				
		"2527088"	"3179426"	"4116451"	"4356997"				
		"4363465"	"4394023"	"4451047"	"4892320"				
		"5201532"	"5297805"	"5411274"	"5522603"				
		"5573253"	"5615896"	"5622371"	"5687974"				
		"5803464"	"5806858"	"5845909").URFN.					
S45	380	S44 not S43				US-PGPUB; USPAT; USOCR	OR	ON	2011/10/18 11:14
S46	303	S44 not S43				US-PGPUB; USPAT	OR	ON	2011/10/18 11:14

S47	825	S43 S46	US-PGPUB; USPAT	OR	ON	2011/10/18 11:59
S48	1292	S43 S46	US-PGPUB; USPAT; USOCR	OR	ON	2011/10/18 11:59
S49	1372	S35 not S48	US-PGPUB; USPAT; USOCR	OR	ON	2011/10/18 11:59
S50	803	S35 not S48	US-PGPUB; USPAT	OR	ON	2011/10/18 11:59
S51	2	("0252351").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/01/05 10:59
S52	73	"252351"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/01/05 10:59
S53	0	"packing rings, method for production of the packing rings, and seal device using the packing rings"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/01/05 11:01
S54	6	("packing rings" and "seal device").ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/01/05 11:03
S55	2691	277/510,534,535-541,638,639.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/01/05 11:25
S56	991	S55 and packing	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/01/05 11:25
S57	999	S55 and (packing or packer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/01/05 11:25
S58	489	S55 and (packing or packer)	US-PGPUB;	OR	ON	2012/01/05;

			USPAT			11:26
S59	0	"09592761"	US-PGPUB; USPAT	OR	ON	2012/01/05 11:45
S60	0	("9592761").FN.	US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/01/05 11:45
S61	37	(US-5803464-\$ or US-6082739-\$ or US-4394023-\$ or US-4451047-\$ or US-4892320-\$ or US-5411274-\$ or US-5522603-\$ or US-5573253-\$ or US-5806858-\$ or US-4116451-\$ or US-5297805-\$ or US-5687974-\$ or US-5201532-\$ or US-4363465-\$ or US-5622371-\$ or US-5845909-\$ or US-1357219-\$ or US-1783762-\$ or US-1924555-\$ or US-1969008-\$ or US-2527088-\$ or US-4356997-\$ or US-5615896-\$ or US-3179426-\$ or US-3443816-\$ or US-3467394-\$).did. or (US-4056272-\$ or US-4730835-\$ or US-1868199-\$).did. or (US-3179426-\$ or US-2357257-\$ or US-1381931-\$ or US-1787020-\$ or US-2217085-\$ or US-2292543-\$ or US-1994830-\$).did. or (JP-05060245-\$).did.	USPAT; USCOR; JPO	OR	ON	2012/01/05 12:04
S62	21	S61 and graphite	US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/01/05 12:05
S63	5	S61 and (graphite near2 tape)	US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/01/05 12:05
S64	37	(US-5803464-\$ or US-6082739-\$ or US-4394023-\$ or US-4451047-\$ or US-4892320-\$ or US-5411274-\$ or US-5522603-\$ or US-5573253-\$ or US-5806858-\$ or US-4116451-\$ or US-5297805-\$ or US-5687974-\$ or US-5201532-\$ or US-4363465-\$ or US-5622371-\$ or US-5845909-\$ or US-1357219-\$ or US-1783762-\$ or US-1924555-\$ or US-1969008-\$ or US-2527088-\$ or US-4356997-\$ or US-5615896-\$ or US-3179426-\$ or US-3443816-\$ or US-3467394-\$).did. or (US-4056272-\$ or US-4730835-\$ or US-1868199-\$).did. or (US-3179426-\$ or US-2357257-\$ or US-1381931-\$ or US-1787020-\$ or US-2217085-\$ or US-2292543-\$ or US-1994830-\$).did. or (JP-05060245-\$).did.	USPAT; USCOR; JPO	OR	ON	2012/02/08 14:01
S65	21	S64 and graphite	USPAT; USCOR; JPO	OR	ON	2012/02/08 14:01
S66	8	S64 and graphite and spiral	USPAT; USCOR; JPO	OR	ON	2012/02/08 14:01
S67	16	("1321919"   "3953566"   "4431698"   "4559862"   "4667969"   "4795171"   "5050298"   "5135240"   "5370926"   "5499827"   "5522603"	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:03

		"5527047").PN. OR ("5687974").URPN.				
S68	4	277/528.ccls. and (expand\$3 near3 graphite) and spiral	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:20
S70	35	"277".clas. and (expand\$3 near3 graphite) and spiral and packing	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:21
S72	24	"277".clas. and (expand\$3 near3 graphite) and (packing or packer) and (wound or wind or winding) not S70	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:25
S74	45	"277".clas. and (graphite) and (packing or packer) and (wound or wind or winding) and spiral not S70 not S72	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:31
S76	7	"277".clas. and (graphite) and (packing or packer) and (wound or wind or winding) and (spiral or spirally or spiraling) not S70 not S72 not S74	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:46
S77	7	"277".clas. and (graphite) and (packing or packer) and (wound or wind or winding) and (spiral or spirally or spiraling) not S70 not S72 not S74 not "L17" not S68	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:48
S78	0	"277".clas. and (graphite) and (packing or packer) and (wound or wind or winding) and (spiral or spirally or spiraling) not S70 not S72 not S74 not S76 not S68	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:48
S79	0	277/528.ccls. and (expand\$3 near3 graphite) and (spiral or spiraling or spirally) not S76 not S74 not S72 not S70 not S68	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:49
S80	2	277/528.ccls. and (graphite) and (spiral or spiraling or spirally) not S76 not S74 not S72 not S70 not S68	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:49
S82	80	277/528,610,633.ccls. and (spiral or spiraling or spirally) not S76 not S74 not S72 not S70 not S68	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:53
S83	12	277/528,610,633.ccls. not S76 not S74 not S72 not S70 not S68 not S82 and graphite	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:57
S84	205	277/528,610,633.ccls. not S76 not S74 not S72 not S70 not S68 not S82 not S83	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 14:58
S85	129	277/528,610,633.ccls. not S76 not S74 not S72 not S70 not S68 not S82 not S83	US-PGPUB; USPAT	OR	ON	2012/02/08 14:59
S86	24	"277".clas. and (expand\$3 near3 graphite) and (packing or packer) and (tape or wound or wind or winding or spiral or spiraling or spirally or laminat\$3) not S76 not S74 not S72 not S70 not S68 not S82 not S83 not S84	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 15:07
S87	1208	"277".clas. and (packing or packer) and (tape or wound or wind or winding or spiral or spiraling or spirally or laminat\$3) not S76 not S74 not S72 not S70 not S68 not S82 not S83 not S84 not S86	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/08 15:09
S88	1234	277/204,123,188,528,534,538,539,535,633,610.ccls.	US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/08 15:10
S89	59	S88 and (packing or packer) and (tape or wound or	US-PGPUB;	OR	ON	2012/02/08



		wind or winding or spiral or spiraling or spirally or laminat\$3) not S76 not S74 not S72 not S70 not S68 not S82 not S83 not S84 not S86	USPAT; USOCR			15:10
S90	0	S88 and (packing or packer) and (tape or wound or wind or winding or spiral or spiraling or spirally or laminat\$3) not S76 not S74 not S72 not S70 not S68 not S82 not S83 not S84 not S86 not S89	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/08 15:14
S91	43	(US-5803464-\$ or US-6082739-\$ or US-4394023-\$ or US-4451047-\$ or US-4892320-\$ or US-5411274-\$ or US-5522603-\$ or US-5573253-\$ or US-5806858-\$ or US-4116451-\$ or US-5297805-\$ or US-5687974-\$ or US-5201532-\$ or US-4363465-\$ or US-5622371-\$ or US-5845909-\$ or US-1357219-\$ or US-1783762-\$ or US-1924555-\$ or US-1969008-\$ or US-2527088-\$ or US-4356997-\$ or US-5615896-\$ or US-3179426-\$ or US-3443816-\$ or US-3467394-\$).did. or (US-4056272-\$ or US-4730835-\$ or US-1868199-\$ or US-4090719-\$ or US-4327923-\$ or US-4239245-\$ or US-5527047-\$ or US-1716977-\$).did. or (US-3179426-\$ or US-2357257-\$ or US-1381931-\$ or US-1787020-\$ or US-2217085-\$ or US-2292543-\$ or US-1994830-\$ or US-1969008-\$).did. or (JP-05060245-\$).did.	USPAT; USOCR; JPO	OR	ON	2012/02/08 15:14
S92	8	S91 and (expand\$3 near2 graphite)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/08 15:15
S93	156	("0816478"   "0969255"   "1086240"   "1155018"   "1321919"   "1350553"   "1464234"   "1505462"   "1543963"   "1655589"   "1856051"   "1932809"   "2188664"   "2251211"   "2357257"   "2442311"   "2882083"   "3009721"   "3048412"   "3117795"   "3132870"   "3179426"   "3663076"   "3703228"   "3761055"   "3926445"   "3953566"   "4006881"   "4032159"   "4068853"   "4090719"   "4116451"   "4157835"   "4162078"   "4190257"   "4214761"   "4256317"   "4280709"   "4298562"   "4305567"   "4328974"   "4350346"   "4363465"   "4364542"   "4394023"   "4431698"   "4451047"   "4455334"   "4457491"   "4516785"   "4559862"   "4591166"   "4629199"   "4667969"   "4673187"   "4705722"   "4795171"   "4796351"   "4826181"   "4892320"   "4934657"   "4961988"   "4961991"   "5050298"   "5098625"   "5112664"   "5126185"   "5128209"   "5134030"   "5135240"   "5161807"   "5188376"   "5228701"   "5275423"   "5286568"   "5370926"   "5411274"   "5499826"   "5499827"   "5522603"   "5527047"   "5573253"   "5806858").PN. OR ("4327923"   "4892320"   "5522603"   "5527047"   "5573253"   "5687974"   "5803464"   "6082739").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2012/02/08 15:16
S94	3	("3467394").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2012/02/08 16:35
S95	0	("L28andgraphite").PN.	US-PGPUB;	OR	OFF	2012/02/08

			USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB			16:37
S96	24	S91 and graphite	US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/08 16:37
S97	4	277/528.ccls. and (expand\$3 near3 graphite) and spiral	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S98	35	"277".clas. and (expand\$3 near3 graphite) and spiral and packing	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S99	24	"277".clas. and (expand\$3 near3 graphite) and (packing or packer) and (wound or wind or winding) not S98	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S100	45	"277".clas. and (graphite) and (packing or packer) and (wound or wind or winding) and spiral not S98 not S99	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S101	7	"277".clas. and (graphite) and (packing or packer) and (wound or wind or winding) and (spiral or spirally or spiraling) not S98 not S99 not S100	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S102	80	277/528,610,633.ccls. and (spiral or spiraling or spirally) not S101 not S100 not S99 not S98 not S97	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S103	12	277/528,610,633.ccls. not S101 not S100 not S99 not S98 not S97 not S102 and graphite	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S104	205	277/528,610,633.ccls. not S101 not S100 not S99 not S98 not S97 not S102 not S103	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S105	24	"277".clas. and (expand\$3 near3 graphite) and (packing or packer) and (tape or wound or wind or winding or spiral or spiraling or spirally or laminat\$3) not S101 not S100 not S99 not S98 not S97 not S102 not S103 not S104	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S106	1234	277/204,123,188,528,534,538,539,535,633,610.ccls.	US-PGPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/09 10:02
S107	59	S106 and (packing or packer) and (tape or wound or wind or winding or spiral or spiraling or spirally or laminat\$3) not S101 not S100 not S99 not S98 not S97 not S102 not S103 not S104 not S105	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S108	0	277/528.ccls. not S101 not S100 not S99 not S98 not S97 not S102 not S103 not S104 not S105 not S107	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:02
S109	2184	277/528,534-541,610,633,510.ccls. not S101 not S100 not S99 not S98 not S97 not S102 not S103 not S104 not S105 not S107	US-PGPUB; USPAT; USCOR	OR	ON	2012/02/09 10:03

S110	44	(US-5803464-\$ or US-6082739-\$ or US-4394023-\$ or US-4451047-\$ or US-4892320-\$ or US-5411274-\$ or US-5522603-\$ or US-5573253-\$ or US-5806858-\$ or US-4116451-\$ or US-5297805-\$ or US-5687974-\$ or US-5201532-\$ or US-4363465-\$ or US-5622371-\$ or US-5845909-\$ or US-1357219-\$ or US-1783762-\$ or US-1924555-\$ or US-1969008-\$ or US-2527088-\$ or US-4356997-\$ or US-5615896-\$ or US-3179426-\$ or US-3443816-\$ or US-3467394-\$).did. or (US-4056272-\$ or US-4730835-\$ or US-1868199-\$ or US-4090719-\$ or US-4327923-\$ or US-4239245-\$ or US-5527047-\$ or US-1716977-\$).did. or (US-3179426-\$ or US-2357257-\$ or US-1381931-\$ or US-1787020-\$ or US-2217085-\$ or US-2292543-\$ or US-1994830-\$ or US-1969008-\$ or US-3467394-\$).did. or (JP-05060245-\$).did.	USPAT; USOCR; JPO	OR	ON	2012/02/09 10:14
S111	24	S110 and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/09 10:14
S112	9	S110 and (graphite near3 expand\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/09 10:14
S113	14	S110 and graphite and (wind or wound or winding or tape or spiral or spiraling or spiraled or spirally)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/09 10:16
S114	387	(Takahisa near2 Ueda).in. (Masaru near2 Fujiwara).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/09 11:41
S115	275	(Takahisa near2 Ueda).in. (Masaru near2 Fujiwara).in. and (seal\$3 or gland or packing)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/09 11:42
S116	265	(Takahisa near2 Ueda).in. (Masaru near2 Fujiwara).in. and (seal\$3 or gland or packing) and (wind or wound or winding wound or spiral or spiraling or spiraled or spirally)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/09 11:52
S117	265	(Takahisa near2 Ueda).in. (Masaru near2 Fujiwara).in. and (seal\$3 or gland or packing) and (wind or wound or winding wound or spiral or	US-PGPUB; USPAT; USOCR;	OR	ON	2012/02/09 11:52

		spiraling or spiraled or spirally) and graphite	FPRS; EPO; JPO; DERWENT; IBM_TDB			
S118	63	((Takahisa near2 Ueda).in. (Masaru near2 Fujiwara).in.) and (seal\$3 or gland or packing) and (wind or winded or winding wound or spiral or spiraling or spiraled or spirally) and graphite	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2012/02/09 11:53

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